SUBJECT INDEX

Absolute Euler summability
Application of the absolute Euler method to some series related to Fourier series and its conjugate series 13
Acoustic radiation
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271
Acoustic scattering
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271
Almost periodic functions
Weak convergence and weak compactness in the space of almost periodic functions on the real line 1
Angular projection matrix
Deriving Karmarkar's LP algorithm using angular projection matrix 69
Arithmetic groups
On the first cohomology of cocompact arithmetic groups 245
Asymptotic behaviour
Asymptotic behaviour of certain zero-balanced hypergeometric series 39

Banach space
Degree of approximation of functions by their Fourier series in the generalized Hölder metric 139
Banach space
Degree of approximation of functions associated with Hardy–Littlewood series in the Hölder metric by Euler means 227
Betti numbers
Quasi-parabolic Siegel formula 133
Bounds
Eigenvalue bounds for Orr–Sommerfeld equation 'No backward wave' theorem 281

Cauchy kernel
Solution of singular integral equations with logarithmic and Cauchy kernels 261
Cauchy principal value
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271
Changing the variables
Changing the variable in convolution of distributions 163
Class-1 representations
A theorem of the Wiener–Tauberian type for $L_1(H_n)$ 369
Cohomology groups
On the first cohomology of cocompact arithmetic groups 245
Compact Riemann surface
Moduli for principal bundles over algebraic curves: I 301
Compact Riemann surface
Moduli for principal bundles over algebraic curves: II 421
Controlled Markov chains
Distributed computation of fixed points of ∞-nonexpansive maps 289
Convolution
Changing the variable in convolution of distributions 163

Deferred Cesàro mean
Degree of approximation of functions by their Fourier series in the generalized Hölder metric 139
Distributed algorithm
Distributed computation of fixed points of ∞-nonexpansive maps 289
Distributions
Changing the variable in convolution of distributions 163
Division algebra
Normal subgroups of $SL_{1,D}$ and the classification of finite simple groups 329
Elastic strip
Four coplanar Griffith cracks moving in an infinitely long elastic strip under antiplane shear stress 91
Elementary spherical functions
A theorem of the Wiener–Tauberian type for $L_1(H_n)$ 369

Euler means
Degree of approximation of functions associated with Hardy–Littlewood series in the Hölder metric by Euler means 227

Finite part
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271
Finite simple group
Normal subgroups of $SL_{1,D}$ and the classification of finite simple groups 329
Fixed point computation
Distributed computation of fixed points of ∞-nonexpansive maps 289

Fourier series
Application of the absolute Euler method to some series related to Fourier series and its conjugate series 13
Fractional
Changing the variable in convolution of distributions 163
Fractional calculus operators
A note on multidimensional modified fractional calculus operators 155
Fractional integral operator
On unified fractional integral operators 53
Frequency equation
Wave propagation in a micropolar generalized thermoelastic body with stretch 183

Gelfand pairs
A theorem of the Wiener–Tauberian type for $L_1(H_n)$ 369
General class of polynomials
On unified fractional integral operators 53
Generalized Hölder metric
Degree of approximation of functions by their Fourier series in the generalized Hölder metric 139
Generalized parabolic bundles
Generalized parabolic bundles and applications—II 403
Generalized principal series
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Generalized thermoelastic
Wave propagation in a micropolar generalized thermoelastic body with stretch 183
Geometric invariant theory
Moduli for principal bundles over algebraic curves: I 301
Geometric invariant theory
Moduli for principal bundles over algebraic curves: II 421
Graceful
New families of graceful banana trees 201

H-function
A note on multidimensional modified fractional calculus operators 155
Hardy–Littlewood series
Degree of approximation of functions associated with Hardy–Littlewood series in the Hölder metric by Euler means 227
Heisenberg group
A theorem of the Wiener–Tauberian type for $L_1(H_n)$ 369
Hilbert transform
Four coplanar Griffith cracks moving in an infinitely long elastic strip under antiplane shear stress 91
Hölder metric
Degree of approximation of functions by their Fourier series in the generalized Hölder metric 139
Hölder metric
Degree of approximation of functions associated with Hardy–Littlewood series in the Hölder metric by Euler means 227
Homomorphism pairs
Continuity of homomorphism pairs into H^*-triple systems 79
Horospherical patches
Limit distributions of expanding translates of certain orbits on homogeneous spaces 105
Hyper singular integral
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271

Infinite matrix
Degree of approximation of functions by their Fourier series in the generalized Hölder metric 139
Infinitely differentiable functions
Changing the variable in convolution of distributions 163
∞-nonexpansive map
Distributed computation of fixed points of ∞-nonexpansive maps 289
Integral
Changing the variable in convolution of distributions 163
Integral equation
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271
Integro-differential equation
A note on a class of singular integro-differential equations 177

Kampe de Feriet function
Asymptotic behaviour of certain zero-balanced hypergeometric series 39
Karmarkar's algorithm
Deriving Karmarkar's LP algorithm using angular projection matrix 69

Lacunary type polynomials
On the zeros of polynomials 127
Limit distributions
Limit distributions of expanding translates of certain orbits on homogeneous spaces 105
Linearization
Linearized oscillations for higher order neutral differential equations 169

Local property
Application of the absolute Euler method to some series related to Fourier series and its conjugate series 13
Logarithmic kernel
Solution of singular integral equations with logarithmic and Cauchy kernels 261

Maxima-minima
On maxima-minima 65
Maximal compact subgroup
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Mellin convolution
On unified fractional integral operators 53
Mellin transform
On unified fractional integral operators 53
Mellin transform
A note on multidimensional modified fractional calculus operators 155
Micropolar
Wave propagation in a micropolar generalized thermoelastic body with stretch 183
Moduli of zeros
On the zeros of polynomials 127
Moving Griffith cracks
Four coplanar Griffith cracks moving in an infinitely long elastic strip under antiplane shear stress 91
Multidimensional operators
A note on multidimensional modified fractional calculus operators 155
Multiplicity
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Multivariable *H*-function
On unified fractional integral operators 53

Neutral differential equations
Linearized oscillations for higher order neutral differential equations 169
Nodal curves
Generalized parabolic bundles and applications—II 403

Open smooth surfaces
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271
Operators
Changing the variable in convolution of distributions 163
Orr–Sommerfeld equation
Eigenvalue bounds for Orr–Sommerfeld equation 'No backward wave' theorem 281
Oscillation
Linearized oscillations for higher order neutral differential equations 169

Partition function
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Principal bundles
Moduli for principal bundles over algebraic curves: I 301
Principal bundles
Moduli for principal bundles over algebraic curves: II 421

Quadratic forms
Hardy's theorem for zeta-functions of quadratic forms 217
Quasi-parabolic divisors
Quasi-parabolic Siegel formula 133

Reductive Lie algebra and group
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Reductive algebraic groups
Moduli for principal bundles over algebraic curves: I 301
Reductive algebraic groups
Moduli for principal bundles over algebraic curves: II 421
Ring shaped region
On the zeros of polynomials 127

Scattering
Solution of singular integral equations with logarithmic and Cauchy kernels 261
Siegel formula
Quasi-parabolic Siegel formula 133
Stress intensity factor
Four coplanar Griffith cracks moving in an infinitely long elastic strip under antiplane shear stress 91
Stretch
Wave propagation in a micropolar generalized thermoelastic body with stretch 183
Summability factor
Application of the absolute Euler method to some series related to Fourier series and its conjugate series 13
Symmetric subgroups
Limit distributions of expanding translates of certain orbits on homogeneous spaces 105

Tapering stepsize
Distributed computation of fixed points of ∞-nonexpansive maps 289
Torsion free sheaves
Generalized parabolic bundles and applications—II 403
Trees
New families of graceful banana trees 201

Triple system
Continuity of homomorphism pairs into H^*-triple systems 79

Unipotent flow
Limit distributions of expanding translates of certain orbits on homogeneous spaces 105

Water waves
Solution of singular integral equations with logarithmic and Cauchy kernels 261
Wave propagation
Wave propagation in a micropolar generalized thermoelastic body with stretch 183
Weak compactness in spaces of continuous functions
Weak convergence and weak compactness in the space of almost periodic functions on the real line 1
Weak convergence
Weak convergence and weak compactness in the space of almost periodic functions on the real line 1
Weight
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Weil conjucture
Quasi-parabolic Siegel formula 133

Zero-balanced hypergeometric series
Asymptotic behaviour of certain zero-balanced hypergeometric series 39
Zeros near the line sigma equal to half
Hardy's theorem for zeta-functions of quadratic forms 217
Zeta-function
Hardy's theorem for zeta-functions of quadratic forms 217

AUTHOR INDEX

Ahuja Gopi
Changing the variable in convolution of distributions 163
Aziz Abdul
On the zeros of polynomials 127

Bakre M S
Multiplicity formulas for finite dimensional and generalized principal series representations 379
Bandral Balraj Singh
see Banerjee Mihir B 281
Banerjee Mihir B
Eigenvalue bounds for Orr–Sommerfeld equation 'No backward wave' theorem 281
Batt J
Weak convergence and weak compactness in the space of almost periodic functions on the real line 1
Bhat-Nayak Vasanti N
New families of graceful banana trees 201
Bhosle Usha N
Generalized parabolic bundles and applications—II 403
Borkar Vivek S
Distributed computation of fixed points of ∞-nonexpansive maps 289
Bose Sujit K
Finite part representations of hyper singular integral equation of acoustic scattering and radiation by open smooth surfaces 271

Chakrabarti A
A note on a class of singular integro-differential equations 177
Chakrabarti A
Solution of singular integral equations with logarithmic and Cauchy kernels 261

Das G
Degree of approximation of functions by their Fourier series in the generalized Hölder metric 139
Das G
Degree of approximation of functions associated with Hardy–Littlewood series in the Hölder metric by Euler means 227
Deshmukh Ujwala N
see Bhat-Nayak Vasanti N 201
Deshpande M V
see Batt J 1

Ghosh M L
see Sarkar J 91
Ghosh Tulika
see Das G 139
Gupta K C
On unified fractional integral operators 53

Kumar Rajneesh
Wave propagation in a micropolar generalized thermoelastic body with stretch 183

Mandal S C
see Sarkar J 91

Nitsure Nitin
Quasi-parabolic Siegel formula 133

Ojha A K
see Das G 227

Parhi N
Linearized oscillations for higher order neutral differential equations 169
Potapchik Alexander
see Rapinchuk Andrei 329

Raina R K
A note on multidimensional modified fractional calculus operators 155
Ramachandra K
Hardy's theorem for zeta-functions of quadratic forms 217
Ramanathan A
Moduli for principal bundles over algebraic curves: I 301
Ramanathan A
Moduli for principal bundles over algebraic curves: II 421
Rapinchuk Andrei
Normal subgroups of $SL_{1,D}$ and the classification of finite simple groups 329
Rawat Rama
A theorem of the Wiener–Tauberian type for $L_1(H_n)$ 369
Ray B K
Application of the absolute Euler method to some series related to Fourier series and its conjugate series 13
Ray B K
see Das G 139
Ray B K
see Das G 227

Sahoo A K
see Ray B K 13

Sahoo T
see Chakrabarti A 177
Sahoo T
see Chakrabarti A 261
Sankaranarayanan A
see Ramachandra K 217
Sarkar J
Four coplanar Griffith cracks moving in an infinitely long elastic strip under antiplane shear stress 91
Shah Nimish A
Limit distributions of expanding translates of certain orbits on homogeneous spaces 105
Shandil R G
see Banerjee Mihir B 281
Shukla Rama
On maxima-minima 65
Singh Baljeet
see Kumar Rajneesh 183
Soni R C
see Gupta K C 53
Srivastava Anand Kumar
Asymptotic behaviour of certain zero-balanced hypergeometric series 39
Venkaiah V Ch
Deriving Karmarkar's LP algorithm using angular projection matrix 69
Venkataramana T N
On the first cohomology of cocompact arithmetic groups 245
Villena A R
Continuity of homomorphism pairs into H^*-triple systems 79
Zargar B A
see Aziz Abdul 127
Zohry M
see Villena A R 79